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Online Training Available

<https://pmu.ifas.ufl.edu/>

<https://eces.ifas.ufl.edu/>

Additional Resources

University of Florida
Extension Publications

<http://edis.ifas.ufl.edu/>

Pest Management in and
Around Structures

<http://www.eXtension.org/>

PMU Focus - Fall Weed Control

By: Chris Marble

When temperatures begin to drop in the fall and winter months throughout most of Florida, lawns will start to see some relief from problematic warm season annual weeds like crabgrass (*Digitaria* spp.), doveweed (*Murdania nudiflora*) and spurges (*Chamaesyce* spp.). While these warm season species are usually the most common invaders in warm climates like we have in Florida, we also need to have a good program in place to control weeds of the cool-season variety. Cool season weeds will typically begin to germinate in the fall and will continue to



Figure 1. *Oxalis stricta* or yellow woodsorrel can germinate and grow year round in Florida but is most commonly seen in the cooler months.

grow throughout the winter months and into the following spring. Some common cool season annual weeds would include species like chickweed (*Stellaria media*), annual bluegrass (*Poa annua*), some woodsorrel species (*Oxalis* spp.) and henbit (*Lamium amplexicaule*). Certain perennials will also begin to reemerge at this time of year like Florida betony (*Stachys floridana*).

Cool season weeds, for the most part, begin to germinate when nighttime temperatures drop to around 60°F for several consecutive days. Generally, this is early October for north Florida and the panhandle area and late October or early November for Central to South Florida. During these windows, preemergence herbicides can be applied, and with proper herbicide selection, most of these problematic winter weeds can be controlled. However, it important to monitor temperatures closely and not just time your applications based upon a date or predetermined schedule. If temperatures drop sooner, then you

will need to apply your preemergence herbicides sooner. Timely and accurate preemergence herbicides can in many cases reduce the cost of postemergence applications that will be needed by 50% or more. By focusing your efforts on developing a good preemergence program, you will also likely have many more affordable options in terms of herbicides that can be safely and effectively.

It is important to remember that the growth rate of turf is going to significantly slow down during the fall and winter in most parts of Florida. As the turf growth slows, so does its ability to recover from herbicide mishaps like improper mixing or applying too high of a rate. No matter what time of year it is, you will be more satisfied with your results and your bottom line if you take the time to read the label and properly calibrate your equipment. Reading the label is the most valuable time you can spend managing any pest and will help you and your company in your year-round battle with weeds.



Figure 2. *Stachys floridana* or Florida betony is a perennial species but emerges when temperatures begin to cool in the fall. This species reproduces by long tubers and rhizomes and can be difficult to control. Preemergence herbicides are usually not effective,

We (Still) Need Your Ticks!

- We are continuing our work on the BDT resistance profiling
- Current work is focused on the sodium channel mutation that confers pyrethroid resistance



Figure 3. Engorged female brown dog tick, about the size of a raisin.

WE NEED TICKS!!!

- Email pkaufman@ufl.edu for details and permits (if not in FL).
- 5 blood-fed females
- Shipped live to Kaufman

Upcoming Training Opportunities:

Our first quarter 2017 schedule is set! Please [check here](#) soon to register!

...Did you know that PMU can help you by

- Partially satisfying the 482/5E-14 requirement for initial technician training hours?

Our [Oct 12-14 Termite Masters](#) and [Nov 9-11 L&O Masters](#) courses are open! ([Oct 26-28 GHP Masters](#) is full; waitlist only.)

The state has graciously allowed us to hold the state certified operator examination at the end of each Masters course. We hold optional reviews in the evenings. To qualify, you must:

- Take the Foundations **and** Masters courses for GHP, WDO, or L&O
- Fill out an application package for the certified operator exam either
 - [Online](#); deadline one week before exam

October 2016 Offerings:

Master of Termite Management (Must have completed Foundations in order to advance.)

Date: October 12-14, 2016; Wed-Fri

Time: 8 AM-5 PM (W, TH); 8 AM-12 PM (F)

Place: UF/IFAS Apopka MREC, 2725 S. Binion Rd, Apopka, FL 32703-8504

Registration fee: \$375

Review termite identification, biology and control and learn about wood-destroying beetles and wood-decaying fungi.

Learn how:

- To do a proper borate application
- Baits work
- To use foam and application techniques to optimize the distribution of liquid termiticides in soil with the Bayer University toys
- Learn about legal and regulatory issues associated with WDOs and contracts from Paul Mitola (FDACS) and Mark Ruff, industry attorney
- Do an abbreviated WDO inspection at PMU's house designed to challenge even experienced inspectors and much more!

[Register here](#)

Master of General Household Pest Management (Must have completed Foundations in order to advance.)

FULL; WAITLIST ONLY. Next course: April 26-28, 2017.

Date: October 26-28, 2016; Wed-Fri

Time: 8 AM-5 PM (W, TH); 8 AM-12 PM (F)

Place: UF/IFAS Apopka MREC, 2725 S. Binion Rd, Apopka, FL
32703-8504

Registration fee: \$375

- Learn about biting and stinging insects, stored product pests, and occasional invaders as well as how to recognize delusory parasitosis.
- Play with the tools of the trade, vacuums, steamers, foamers and practice spray patterns.
- Prepare for an introduction to vertebrate pests that carry disease causing organisms.
- Learn about the legal liabilities of GHP work.
- Practice affidavit writing and working with DACS on licensee inspections.

[Register here](#)

November offering

Master of Lawn and Ornamental Pest Management

(Must have completed Foundations in order to advance.)

Date: November 9-11, 2016; W-F

Place: UF/IFAS Apopka MREC

Time: 8 AM-5 PM (W, TH); 8 AM-12 PM (F)

Registration fee: \$375

- *New approach with more hands-on!*
- Advanced training in diagnosing complex problems in lawns and landscapes, including nutritional deficiencies and the importance of pH in developing integrated pest management (IPM) treatment plans
- More in-depth information on the biology and life cycle of diseases, insects, and weeds, how to manage resistant populations, chemical modes of action and the importance of chemical rotation
- Learn about practices that can impact plant health and water quality

[Register here](#)

December Offering

WDO Inspections and Form 13645 (Termite Foundation highly recommended before this class)

Date: December 8-9, 2016; Th-Fri

Time: 8 AM-5 PM (TH); 8 AM-12 PM (F)

Place: UF/IFAS Apopka MREC, 2725 S. Binion Rd, Apopka, FL 32703-8504

Registration fee: \$220

Click on "Register here" for course descriptions or go to <http://pmu.ifas.ufl.edu/courses> for more information

Learn more from IFAS



- UF/IFAS has Extension Offices in each of Florida's sixty-seven counties. We also have twelve Research and Education Centers (RECs) and Research and Demonstration Sites (RDSs).
- If you need help a great place to start is your local County Extension Office. With an office located in every county it has never been easier to partner with the University of Florida and your local County Government. To find an office near you please visit:
<http://solutionsforyourlife.ufl.edu/map/>